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the present voltage difference is equal to or greater than the ~~present~~ previous voltage difference, this difference implies that the WDM wavelengths of the multi-frequency light source 214 are more discrepant from those of the WDM MUX/DEMUX 238. Therefore, the controller 234 increases or decreases the temperature of the multi-frequency light source 214 by  $\Delta T$ , by a value that is contrary to the present temperature change, in step 316. That is, if the temperature of the multi-frequency light source 214 was increased by  $\Delta T$ , it is decreased by  $\Delta T$  at this time, and vice versa.

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Please replace the paragraph beginning at page 16, line <sup>5</sup>6 with the following paragraph:

On the other hand, if the present voltage difference is less than the ~~present~~ previous voltage difference, this difference implies that the WDM wavelengths of the multi-frequency light source 214 are not significantly different from those of the WDM MUX/DEMUX 238. Therefore, the controller 234 increases or decreases the temperature of the multi-frequency light source 214 by  $\Delta T$ , in the same manner as the previous temperature change, in step 318. That is, if the temperature of the multi-frequency light source 214 was increased by  $\Delta T$ , it is also increased by  $\Delta T$  at this time. If the temperature of the multi-frequency light source 214 was decreased by  $\Delta T$ , it is also decreased by  $\Delta T$  at this time.

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Please replace the paragraph beginning at page 16, line <sup>14</sup>15 with the following paragraph:

After step 316 or 318, the controller 234 stores the present voltage difference as the